

Title (en)
HIGH PRODUCTIVITY METHANE FERMENTATION PROCESSES

Title (de)
METHANFERMENTATIONSVERFAHREN MIT HOHER PRODUKTIVITÄT

Title (fr)
PROCÉDÉS DE FERMENTATION DU MÉTHANE À HAUTE PRODUCTIVITÉ

Publication
EP 3625327 A4 20210324 (EN)

Application
EP 18802604 A 20180518

Priority

- US 201762603181 P 20170519
- US 2018033423 W 20180518

Abstract (en)
[origin: WO2018213724A1] Processes are provided for enhancing the productivity of fermenters during the metabolic conversion of methane-containing gases to products containing polyhydroxyalkanoate, which products can be used to make, for instance, animal feed or biodegradable, polymeric articles. The processes involve one or both of attenuating the heat generated to grow a population of microorganisms and removal of heat during the fermentation by removal of carbon dioxide.

IPC 8 full level
C12N 1/00 (2006.01); **C12P 7/00** (2006.01); **C12Q 1/00** (2006.01)

CPC (source: EA EP KR US)
C12F 3/02 (2013.01 - US); **C12P 5/023** (2013.01 - KR); **C12P 7/625** (2013.01 - EA EP KR US); **C12Q 1/00** (2013.01 - EA EP KR); **C12P 5/023** (2013.01 - EA EP); **Y02E 50/30** (2013.01 - EP); **Y02P 20/129** (2015.11 - EP)

Citation (search report)

- [A] US 2007202581 A1 20070830 - HERREMA MARKUS [US], et al
- [A] ALLISON J PIEJA ET AL: "Distribution and Selection of Poly-3-Hydroxybutyrate Production Capacity in Methanotrophic Proteobacteria", MICROBIAL ECOLOGY, SPRINGER-VERLAG, NE, vol. 62, no. 3, 19 May 2011 (2011-05-19), pages 564 - 573, XP019953784, ISSN: 1432-184X, DOI: 10.1007/S00248-011-9873-0
- See also references of WO 2018213724A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
WO 2018213724 A1 20181122; AU 2018270106 A1 20191212; AU 2018270106 B2 20240321; BR 112019024244 A2 20200602; CA 3064080 A1 20181122; CN 110997896 A 20200410; CN 110997896 B 20231027; DK 3625327 T3 20240219; EA 201992758 A1 20200423; EP 3625327 A1 20200325; EP 3625327 A4 20210324; EP 3625327 B1 20231227; JP 2020523033 A 20200806; JP 7205997 B2 20230117; KR 102666669 B1 20240516; KR 20200011454 A 20200203; US 10934566 B2 20210302; US 2020181659 A1 20200611

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